Detailed Data Tables: Women at Risk

Table 1. People diagnosed with HIV infection by
gender: Massachusetts, 2004–2006 ¹

Gender:	N	%
Male Female	1,860 711	72% 28%
TOTAL	2,571	100%

¹ Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

Table 2. People living with HIV/AIDS on December 31, 2007 by gender: Massachusetts

	HIV/AIDS	
Gender:	N	%
Male Female	12,100 4,877	71% 29%
TOTAL	16,977	100%

Table 3. People diagnosed with HIV infection by Health Service Region (HSR)¹ and gender: Massachusetts, 2004–2006²

	Male	•	Femal	е	Total
Health Service Region:	N	%	N	%	N
Boston HSR	637	79%	168	21%	905
Central HSR	142	63%	85	37%	805 227
Metro West HSR	255	73%	93	27%	348
Northeast HSR	263	65%	142	35%	405
Southeast HSR	255	75%	87	25%	342
Western HSR	236	65%	128	35%	364
Prisons ³	71	91%	7	9%	78
MA Total	1,860	72%	711	28%	2,571
4					

Reflects the Health Service Region of a person's residence at the time of report (not necessarily current residence); see Epidemiologic Profile General Appendices, Health Service Region Maps, available at http://www.mass.gov/dph/aids/research/profile2005/app5 hrs maps.pdf for configuration of Health Service Regions

Table 4. People living with HIV/AIDS on December 31, 2007 by Health Service Region (HSR)¹ and gender: Massachusetts

	Male		Femal	е	Total
Health Service Region	N	%	N	%	N
Boston HSR	4,164	76%	1,281	24%	5,445
Central HSR	943	62%	576	38%	1,519
Metro West HSR	1,563	72%	621	28%	2,184
Northeast HSR	1,660	67%	803	33%	2,463
Southeast HSR	1,669	71%	682	29%	2,351
Western HSR	1,259	62%	771	38%	2,030
Prison ²	835	86%	139	14%	974
MA Total ³	12,100	71%	4,877	29%	16,977

Reflects the Health Service Region of a person's residence at the time of report (not necessarily current residence); see Epidemiologic Profile General Appendices, Health Service Region Maps, available at

Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis ³ HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prisons include only persons who were diagnosed with HIV/AIDS while in a correctional facility

http://www.mass.gov/dph/aids/research/profile2005/app5 hrs maps.pdf for configuration of Health Service Regions HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prisons include only persons who were diagnosed with HIV/AIDS while in a correctional facility

MA Total includes 6 people living with HIV/AIDS for whom residence at diagnosis was unknown at time of report Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

Table 5. Ten cities/towns	in Massachusetts with the highest
proportion of women amount	ong HIV infection diagnoses (HIV Dx):
2004-2006 ²	

Rank	City/Town	Number of HIV Dx among women	Percent of Total HIV Dx
1	Waltham	16	57%
2	Chicopee	15	56%
3	Brockton	34	52%
4	Framingham	15	47%
4	Lawrence	28	47%
5	Lynn	22	45%
6	Worcester	56	43%
7	Lowell	33	41%
8	Springfield	75	38%
9	Malden	16	36%
10	Holyoke	20	35%
10	Medford	9	35%
11	Quincy	10	34%
			-

¹ Among cities/towns with over 20 reported HIV infection diagnoses in the years 2004–2006. Note: reflects the city/town of a person's residence at the time of report (not necessarily current residence). People diagnosed while at a correctional facility are not included

Table 6. People diagnosed with HIV infection by gender and race/ethnicity: Massachusetts, 2004–2006¹

	Male	•	Fema	le
Race/Ethnicity:	N	%	N	%
White Non-Hispanic	892	48%	131	18%
Black Non-Hispanic	460	25%	356	50%
Hispanic	462	25%	205	29%
Asian/Pacific Islander	35	2%	9	1%
Other/Unknown	11	1%	10	1%
Total	1,860	100%	711	100%

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

correctional facility are not included

² Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

Table 7. People living with HIV/AIDS on December 31, 2007 by gender and race/ethnicity: Massachusetts

Race/Ethnicity:	Male		Female	
	N	%	N	%
White Non-Hispanic	6,247	52%	1.397	29%
Black Non-Hispanic	2,757	23%	1,988	41%
Hispanic	2,863	24%	1,391	29%
Asian/Pacific Islander	166	1%	50	1%
American Indian/Alaska Native	9	<1%	14	<1%
Not Specified	58	<1%	37	1%
Total	12,100	100%	4,877	100%

Table 8. Crude and age-adjusted rates of diagnosis of HIV infection per 100,000 population¹ by race/ethnicity and gender: Average annual rate 2004–2006², Massachusetts

State total:	Crude rate per 100,000	Age-adjusted rate per 100,000
White (non-Hispanic)	6.4	6.2
Black (non-Hispanic)	80.8	81.4
Hispanic	51.9	57.5
Asian/Pacific Islander	6.0	5.7
American Indian/Alaskan Native	8.7	
Total rate	13.5	13.2
Males:	Crude rate per	Age-adjusted rate
	100,000	per 100,000
		44.0
White (non-Hispanic) Males	11.6	11.0
Black (non-Hispanic) Males	94.5	97.9
Hispanic Males Asian/Pacific Islander Males	72.7 9.7	81.3 8.9
Asian/Pacific Islander Males American Indian/Alaskan Native Males	9.7 5.8	8.9 5.4
Allielicali lilulali/Alaskali Ivalive iviales	5.0	J. T
Total rate among males	20.3	19.4
Females:	Crude rate per	Age-adjusted rate
	100,000	per 100,000
White (non-Hispanic) Females	1.6	1.6
Black (non-Hispanic) Females	68.1	66.7
Hispanic Females	31.5	35.3
Asian/Pacific Islander Females	2.4 11.5	2.5
American Indian/Alaskan Native Females	11.5	10.4
Total rate among females	7.2	7.2

¹The denominators for rate calculations are based on year 2000 population estimates from the MDPH Center for Health Information, Statistics, Research and Evaluation

² Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/08

Table 9. Crude and age-adjusted HIV/AIDS prevalence per 100,000 population¹ on December 31, 2007 by race/ethnicity and gender: Massachusetts

State Total:	Crude rate per	Age-adjusted rate
	100,000	per 100,000
White (non-Hispanic)	143.5	136.0
Black (non-Hispanic)	1,409.9	1,552.6
Hispanic	992.2	1,351.8
Asian/Pacific Islander	87.9	96.8
American Indian/Alaskan Native	200.2	187.6
Total prevalence	267.4	261.7
Males:	Crude rate per	Age-adjusted rate
	100,000	per 100,000
White (non-Hispanic) Males	244.2	228.1
Black (non-Hispanic) Males	1,699.8	1,972.5
Hispanic Males	1,352.4	1,960.4
Asian/Pacific Islander Males	137.6	152.3
American Indian/Alaskan Native Males	157.5	150.5
Total prevalence among males	395.6	384.4
Females:	Crude rate per	Age-adjusted rate
	100,000	per 100,000
White (non-Hispanic) Females	50.5	48.9
Black (non-Hispanic) Females	1,140.2	1,196.1
Hispanic Females	640.9	818.4
Asian/Pacific Islander Females	40.0	43.2
American Indian/Alaskan Native Females	242.5	223.8
Total prevalence among females	148.2	146.4

¹ The denominators for prevalence calculations are based on year 2000 population estimates from the MDPH Bureau of Health Statistics, Research and Evaluation
Data Source: MDPH HIV/AIDS Surveillance Program; data as of 1/1/08

Table 10. People diagnosed with HIV infection within the years 2004–2006¹ by gender and place of birth: Massachusetts

	Male		Female	•
Race/Ethnicity:	N	%	N	%
United States (US) Puerto Rico/US Dependency ² Non-US Total	1,290 167 403 1,860	69% 9% 22% 100%	320 75 316 711	45% 11% 44% 100%

¹ Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis ² Ninety-seven percent of people diagnosed with HIV infection from 2004–2006 who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands and 2% were born in an unknown US dependency Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

Table 11. People living with HIV/AIDS on December 31, 2007 by gender and place of birth: Massachusetts

	Male		Female	
Race/Ethnicity:	N	%	N	%
United States (US) Puerto Rico/US Dependency ¹ Non-US	8,765 1,394 1,941	72% 12% 16%	2,875 642 1,360	59% 13% 28%
Total	12,100	100%	4,877	100%

¹ Ninety-six percent of people living with HIV/AIDS who were born in a US Dependency were born in Puerto Rico, <1% were born in the US Virgin Islands, and 3% were born in an unknown dependency Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

Table 12. Females diagnosed with HIV infection by place of birth and year of diagnosis: Massachusetts, before 1999, 1999–2006¹

	US		Puerto R US Depend	_	Non-U	S	
	N	%	N	%	N	%	Total
< 1999	3,309	71%	726	16%	635	14%	4,670
1999	237	58%	53	13%	116	29%	406
2000	196	54%	37	10%	128	35%	361
2001	166	55%	34	11%	100	33%	300
2002	163	47%	36	10%	148	43%	347
2003	145	47%	40	13%	124	40%	309
2004	124	43%	41	14%	125	43%	290
2005	101	43%	21	9%	112	48%	234
2006 ³	95	51%	13	7%	79	42%	187

Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis ² Ninety-seven percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, and 2% were born in an unknown dependency ³ 2006 data are preliminary

Table 13. People diagnosed with HIV infection by g	gender
and exposure mode: Massachusetts, 2004–2006 ¹	

	Male	!	Female	
Exposure Mode:	N	%	N	%
			_	_
Male-to-Male Sex (MSM)	940	51%	N/A^2	N/A^2
Injection Drug Use (IDU)	240	13%	113	16%
MSM/IDU	49	3%	N/A ²	N/A ²
Heterosexual Sex	107	6%	171	24%
Other ³	5	<1%	13	2%
Total Undetermined	519	28%	414	58%
 Presumed Heterosexual Sex⁴ 	287	15%	312	44%
 Undetermined⁵ 	232	12%	102	14%
Total	1,860	100%	711	100%

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

Note: The category of "presumed heterosexual sex" is used in Massachusetts to reassign people who are reported with no identified risk but who have reported heterosexual sex with a partner of unknown HIV status or risk. Massachusetts uses this category to distinguish these cases from other undetermined cases about which we know less. Nationally, the Centers for Disease Control and Prevention categorizes "presumed heterosexual sex" cases as "no identified risk" (NIR). As such, comparisons of the presumed heterosexual category cannot be made to national data. Caution should be used in interpreting data for presumed heterosexual, as it is still not clear what the exposure risk is for people in this category. Although a person may not report other risk behaviors such as injection drug use or male-to-male sex to his/her health care provider, it does not necessarily mean that he/she has not engaged in them. There are many barriers to disclosing HIV risk behaviors in the health care setting such as a limited patient-provider relationship or stigma.

²N/A = Not Applicable;

³Other includes pediatric and receipt of blood/blood products

⁴ Heterosexual sex with partners with unknown risk and HIV status

⁵ Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

Table 14. People living with HIV/AIDS on December 31, 2007 by	
gender and exposure mode: Massachusetts	

	Male		Female		
Exposure Mode:	N	%	N	%	
			1	1	
Male-to-male sex (MSM)	5,773	48%	N/A ¹	N/A ¹	
Injection drug use (IDU)	2,906	24%	1,372	28%	
MSM/IDU	539	4%	N/A ¹	N/A ¹	
Total Heterosexual Sex (HTSX)	687	6%	1,594	33%	
HTSX w/ IDU	179	1%	760	16%	
HTSX w/ bisexual male	N/A	N/A	39	1%	
 HTSX w/ blood/blood products² 	9	<1%	18	<1%	
HTSX w/ person w/HIV/AIDS	499	4%	777	16%	
Other ³	236	2%	169	3%	
Total Undetermined	1,959	16%	1,742	36%	
 Presumed heterosexual sex⁴ 	1,253	10%	1,390	29%	
 Undetermined⁵ 	706	6%	352	7%	
Total	12,100	100%	4,877	100%	

¹ N/A=Not Applicable

Table 15. *Females* diagnosed with HIV infection by race/ethnicity¹ and exposure mode: Massachusetts, 2004–2006²

	White N	White NH ³		NH	Hispanic	
Exposure Mode:	N	%	N	%	N	%
IDU⁴	52	40%	19	5%	40	20%
IDU⁴ HTSX⁵	27	21%	67	19%	71	35%
Other ⁶	3	2%	7	2%	3	1%
Total Undetermined	49	37%	263	74%	91	44%
Pres. HTSX ⁷ Undetermined ⁸	37 12	28% 9%	198 65	56% 18%	71 20	35% 10%
Total	131	100%	356	100%	205	100%

¹ Data for American Indian/Alaska Native, Asian/Pacific Islander and Other/Unknown race/ethnicity are not presented due to small numbers

² Heterosexual sex with a person who received blood/blood products

³ Other includes pediatric and receipt of blood/blood products

⁴ Heterosexual sex with partners with unknown risk and HIV status

⁵ Includes those still being followed up for risk information, those who have died with no determined risk, those lost to follow-up, and confirmed occupational exposure

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

³NH = Non-Hispanic

⁴ IDU = Injection Drug Use

⁵HTSX = Heterosexual Sex

⁶ Other includes pediatric and receipt of blood/blood products

⁷ Pres. HTSX = Presumed Heterosexual Sex, heterosexual sex with partners with unknown risk and HIV status

⁸ Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

Table 16. Females living with HIV/AIDS on December 31, 2007 by race/ethnicity¹ and exposure mode: Massachusetts

	White	NH ²	Black	NH	Hispa	anic	AP	l ³
Exposure Mode:	N	%	N	%	N	%	N	%
1D114	667	400/	24.0	400/	270	070/	2	C 0/
IDU ⁴	667	48%	316	16%	378	27%	3	6%
HTSX ⁵	391	28%	572	29%	595	43%	19	38%
Other ⁶	51	4%	64	3%	54	4%	3	6%
Total Undetermined	288	21%	1,036	52%	364	26%	25	50%
Pres. HTSX ⁷	218	16%	860	43%	283	20%	15	30%
Undetermined ⁸	70	5%	176	9%	81	6%	10	20%
Total	1,397	100%	1,988	100%	1,391	100%	50	100%

¹ Data for American Indian/Alaska Native, Asian/Pacific Islander and Other/Unknown race/ethnicity are not presented due to small numbers

Table 17. People diagnosed with HIV infection by gender and age at HIV diagnosis: Massachusetts, 2004–2006¹

	Males		Female	s
Age (years):	N	%	N	%
Under 13	4	<1%	12	2%
13 to 19	21	1%	22	3%
20 to 24	106	6%	63	9%
25 to 29	189	10%	86	12%
30 to 34	252	14%	113	16%
35 to 39	376	20%	99	14%
40 to 44	371	20%	120	17%
45 to 49	274	15%	89	13%
50 to 54	130	7%	53	7%
55 to 59	77	4%	34	5%
60+	60	3%	20	3%
Total	1,860	100%	711	100%

¹ Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

² NH = Non-Hispanic

³ API = Asian/Pacific Islander

⁴IDU = Injection Drug Use

⁵HTSX = Heterosexual Sex

⁶Other includes pediatric and receipt of blood/blood products

⁷ Pres. HTSX = Presumed Heterosexual Sex, heterosexual sex with partners with unknown risk and HIV status

⁸ Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

Table 18. Number of sexual partners in the past year, female BRFSS respondents ages 18-64 Massachusetts, 2005-2006

	0 Partners	1 Partner	2+ Partners	N^2
Total Females	995	2,599	150	3,744
Age in Years:	0 Partners	1 Partner	2+ Partners	N
Age iii Tears.	U Faithers	i Faithei	Z+ Faithers	IN
18-24	19.6%	61.9%	18.4%	230
25-34	6.7%	87.2%	6.0%	684
35-44	12.5%	85.0%	2.5%	973
45-64	29.9%	68.9%	1.2%	1,805
Race/Ethnicity: ³	0 Partners	1 Partner	2+ Partners	N
White NH ⁴	17.6%	77.0%	5.4%	2,889
Black NH ⁴	24.5%	64.1%	11.4%	207
Hispanic	26.2%	69.4%	4.4%	470
Sex of Partner: ⁵	0 Dorthoro	4 Dorthor	2 · Dortnoro	N.
Sex of Partifier.	0 Partners	1 Partner	2+ Partners	N
Same sex	Not Applicable	85.6%	14.4%	55
Opposite sex	Not Applicable	94.0%	6.0%	2,675

[&]quot;Number of sexual partners in past year" is a state-added question administered to a sub-sample of BRFSS respondents.

Data source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2005–2006

² Only respondents with known values are included in this table. Column sub-totals may not equal overall total due to missing values.

3 Data for Asian is not presented due to small numbers

⁴NH= Non-Hispanic

⁵ Only asked of sexually active adults

Table 19. Sexual behavior as reported among school-aged female respondents to the Youth Risk Behavior Survey: Massachusetts

Calendar Year 2005

By Behavior:	Percent of total responding yes to specified question	N ¹ (total number of respondents for each question)
Ever had sexual intercourse Sexual intercourse before age 13 4 or more lifetime sexual intercourse partners Sexual intercourse in last 3 months Condom used at last intercourse ² Alcohol/drugs used at last intercourse ² Ever been, gotten someone pregnant Ever had sexual contact against their will	42.9% 2.2% 10.5% 35.4% 59.2% 20.2% 4.6% 15.2%	1,669 1,671 1,670 1,637 542 553 1,749

¹ The number of respondents for each question varies because not all questions are asked of everyone taking the survey and, even when the question is asked, some survey participants do not provide an answer

Data Source: Massachusetts Department of Education

Table 20. Percentage of Massachusetts Youth Risk Behavior Survey respondents reporting condom use at last sexual intercourse by year and gender: Massachusetts, 1993–2005¹

Males		Fem	ales	<u>Total</u> Males + Females		
Year	%	Total N ²	%	Total N ²	%	Total N ²
1993 1995 1997 1999 2001 2003 2005	57.4% 59.9% 64.2% 62.6% 61.6% 60.3% 71.6%	409 623 517 589 553 424 442	46.7% 52.0% 50.4% 52.0% 54.9% 57.4% 59.2%	462 626 559 639 582 496 542	51.8% 55.9% 57.0% 57.2% 58.1% 57.4% 65.0%	872 1,253 1,079 1,237 1,139 922 986

¹ A random sample of high schools is selected for participation each year, data presented do not represent cohorts followed over time

Data Source: Massachusetts Department of Education

² Among youth reporting sexual intercourse in the past three months

² Total N = total number of respondents by sex. The number of respondents for each question varies because not all questions are asked of everyone taking the survey and, even when the question is asked, some survey participants do not provide an answer

Table 21. Percentage of Massachusetts Youth Risk Behavior Survey respondents reporting sexual intercourse (ever) by year and gender: Massachusetts, 1993–2005¹

Year	Males		Females		<u>Total</u> Males + Females	
	%	Total N ²	%	Total N ²	%	Total N ²
1993 1995 1997 1999 2001 2003 2005	51.4% 50.3% 46.8% 46.4% 46.3% 40.8% 47.9%	1,326 1,870 1,800 1,922 1,886 1,581 1,512	46.0% 42.8% 42.4% 41.8% 42.3% 41.1% 42.9%	1,435 1,930 1,858 2,017 1,892 1,676 1,669	48.7% 46.5% 44.7% 44.1% 44.3% 41.0% 45.4%	2,763 3,806 3,664 3,954 3,786 3,261 3,185

A random sample of high schools is selected for participation each year, data presented do not represent cohorts

Data Source: Massachusetts Department of Education

Table 22. Total reported AIDS cases by gender and year of diagnosis: Massachusetts, 1985-2006¹

Year of diagnosis:	Male		Female N	!	Total
	N	%		%	
1985	203	90%	22	10%	225
1990	885	82%	194	18%	1,079
1995	1,065	76%	341	24%	1,406
1997	696	75%	234	25%	930
1998	699	72%	269	28%	968
1999	681	73%	255	27%	936
2000	557	71%	232	29%	789
2001	487	69%	223	31%	710
2002	478	70%	207	30%	685
2003	391	67%	191	33%	582
2004	431	69%	192	31%	623
2005	423	72%	166	28%	589
2006 ¹	355	72%	138	28%	493

2006 data are preliminary

followed over time

² Total N = total number of respondents by sex. The number of respondents for each question varies because not all questions are asked of everyone taking the survey and, even when the question is asked, some survey participants do not provide an answer

Table 23. Deaths among persons reported with AIDS by gender and year of death: Massachusetts, 1985–2006

	Male		Female		Total
Year of death	N	%	N	%	N
1985	108	90%	12	10%	120
1990	556	88%	76	12%	632
1995	944	80%	242	20%	1,186
1997	286	74%	100	26%	386
1998	253	76%	79	24%	332
1999	267	77%	82	23%	349
2000	248	74%	89	26%	337
2001	266	72%	104	28%	370
2002	228	71%	91	29%	319
2003	233	70%	102	30%	335
2004	203	74%	72	26%	275
2005	174	70%	74	30%	248
2006	183	72%	70	28%	253